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N-Channel

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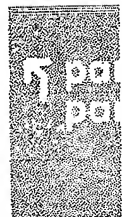
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Description: MOSFET, Power; N-Channel;
17.5 Milliohms (Max.) @ 10 V,
25 A; 55 V (Min.)Datasheet: [View Datasheet PDF](#) main
1-866-**Allied** **273-0233**
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














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Manufacturer: International Rectifier
Description: MOSFET; N-Channel; 0.54
Ohms (Max.); 100 V (Min.);
5.6 A (Max.); 43 W (Max.)Datasheet: [View Datasheet PDF](#) **Allied** **273-0230**
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(Min.); 33 A (Max.); 130 W
(Max.); 11 ns (Typ.)Datasheet: [View Datasheet PDF](#) **Allied** **273-0217**
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Manufacturer: International Rectifier
Description: MOSFET; N-Channel; 55 V


	(Min.); 110 A (Max.); 200 W (Max.); 14 ns (Typ.) Datasheet: View Datasheet PDF 			
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	Manufacturer:	International Rectifier			
	Description:	MOSFET, Power; N-Channel; 0.85 Ohms (Max.); 500 V (Min.); 8 A (Max.) @ 25 degC			
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	Manufacturer:	International Rectifier			
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	Mfr's part #:	IRFP450			
	Manufacturer:	International Rectifier			
	Description:	MOSFET, Power; N-Channel; 0.40 Ohms (Max.); 500 V (Min.); 14 A (Max.) @ 25 degC			
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	Manufacturer:	International Rectifier			
	Description:	MOSFET, Power; N-Channel; 0.18 Ohms (Max.) @ 10 V, 12 A; 200 V (Min.); 40 degC/			
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	Mfr's part #:	SI4840DY-T1			
	Manufacturer:	Siliconix/Vishay			
	Description:	MOSFET, Power; N-Channel; 0.0075 Ohms (Typ.) @ 10 V, 0.0095 Ohms (Typ.) @ 4.5 V			
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	Manufacturer:	International Rectifier			

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properly. By connecting the backgate of each **FET** to the **power** supply, negative for p- **channel** devices and positive for n-**channel** devices, the gate of the ...

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Antimony - An **n-type** dopant often used to form the buried layer in a bipolar ...

an **FET** that is a source for holes (P-**channel**) or free electrons (N-**channel**) ...

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Figure 6-20: Basic **circuit** for detecting changes in capacitance. ... [39]

Transistor, Gallium Arsenide **Power FET**, Generic Specification, JEDEC

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describe the noise study of an ambipolar CNT-**FET** with a negative threshold of 5V and a positive threshold of 15V. The noise **power** spectra densities (PSDs) ...

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four types of biomass **power** plants: direct-fired combustion, co-**firing**, ... The first prototype high voltage ramp **circuit** involves a chain of **n-type** ...

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United States Patent Class 102/206 Ignition or detonation circuit

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**Patent
No.**

Patent Title:

7021216

A

Method of and system for controlling a blasting network

A method and system for controlling a blasting network (16) for use where spurious command signals may be passed through a blasting controller (12) to the blasting network, for example when the controller is connected to the Internet or Intranet (10). The system includes a firewall (14) whereby...

7017494

A

Method of identifying an unknown or unmarked slave device such as in an...

A system, for example an electronic blasting system, in which a command is issued by a master device to all slave devices connected to the system, causing all slave devices that have not been identified to the master device to respond with identifying information and optionally other information...

7013807

A

Current modulation-based communication for slave device

Current modulation-based talkback in a system in which the background noise in the level of current draw is minimized such that the talkback is effected with a desirably high signal-to-noise ratio, such as by the master device holding the system voltage low such that the slave devices will not...

6988449

A

Dynamic baselining in current modulation-based communication

Dynamic baselining of current modulation-based talkback from a slave device to a master device in a system such as an electronic blasting system, wherein the dynamic baselining enhances communication integrity under conditions of environmental noise and the like. With a data packet of...

6966262

A

Current modulation-based communication from slave device

Current modulation-based talkback in a system in which the background noise in the

level of current draw is minimized such that the talkback is effected with a desirably high signal-to-noise ratio, such as by the master device holding the system voltage low such that the slave devices...

6941869 Sensor for monitoring electronic detonation circuits

A voltage sensor (10) for monitoring electronic ignition circuits (1) which contains a plurality of igniters (4) connected to an ignition line (3) and an ignition device (2) connected to the ignition line (3) to program the electronic igniters (4). The voltage sensor (10) can be...

6925938 Electro-explosive device with laminate bridge

A semiconductor bridge (SCB) device. In one embodiment, the SCB device includes a laminate layer on top of an insulating material, wherein the laminate layer comprises a series of layers of at least two reactive materials, and wherein the laminate layer comprises two relatively large...

6904846 Ignition device for a safety system

The invention relates to a safety system for an ignition device (7), particularly a safety system for an ignition device (7) to activate an airbag, a belt tightener or a similar type safety device for use in vehicles. The ignition device can be activated by input signals which are fed...

6889610 Ordnance firing system

An ordnance system of the present invention may include or feature any one or more of: a control unit, one or more effectors (detonators, initiators, shaped charges and the like), and a two-, three- or four-wire communication bus between the control unit and the effectors; an addressable system...

6860206 Remote digital firing system

The present invention is directed to a remote digital firing system for firing of a remote mission payload that includes a firing circuit communicatively coupled to and operative to fire the remote mission payload, a firing control panel communicatively linked to said firing circuit, and a...

6857369 Precision pyrotechnic display system and method having increased safety and...

A system and method are disclosed for controlling the launch and burst of pyrotechnic projectiles in a pyrotechnic, or "fireworks", display.

6837163 Flexible detonator system

An electronic detonator system includes a control unit, a plurality of electronic detonators and a bus which connects the detonators to the control unit. Each electronic detonator includes a number of flags which may assume either of two possible values, each flag indicating a...

6820557 Igniter for air bag system

The present invention provides an igniter for an air bag system in which the whole weight can be reduced. The present invention provides an igniter for an air bag system which is used in an air bag system comprising an ECU connected to a power source and an impact detecting sensor, and a module...

6789483 Detonator utilizing selection of logger mode or blaster mode based on sensed...

An electronic blasting system in which the electronic detonator, when attached to a blasting machine or logger, automatically senses and determines whether it is attached to a blasting machine or a logger, preferably by utilizing a different operating voltage for the blasting machine versus that...

6779605 Downhole tool deployment safety system and methods

A safety system controls the activation of one or more downhole tools by providing selective transmission of an activation signal or an energy stream. In a preferred embodiment, transmission of the activation signal or the energy stream is allowed after the tool has passed below a known...

- 6758135 Method and device for moisturization of a paper or board web in calendering**
A paper or board web (W) is calendered in at least one calendering nip (N1-N8), and the web (W) is moisturized before calendering. The web (W) is moisturized by means of liquid moisturization (20; 21) very close before at least one calendering nip (N1, N5). A calender for calendering a paper or...
- 6752083 Detonators for use with explosive devices**
A detonator assembly for use with explosive devices includes a support structure, an exploding foil initiator mounted on the support structure, and a barrel attached to the support structure and adjacent the exploding foil initiator. The support structure may include a flex cable. An explosive is...
- 6748869 Device for firing a primer**
The invention relates to the field of electrical firing mechanisms and particularly to a device for firing a primer of the type having, in particular, an electrical power supply for a circuit including a detector, a switch and an igniting device for igniting the primer, such as an electrical...
- 6729240 Ignition isolating interrupt circuit**
An ignition isolating interrupt control circuit (52) includes a main transition circuit (90) isolating a first activation circuit (84) from an ignition circuit (114). The main transition circuit (90) includes a source terminal (93) that is electrically coupled to and receives a first source power...
- 6707417 Accurate range calibration architecture**
A radar system having a tactical mode and a calibration mode includes a transmitter section for providing high-power amplification of an RF pulsed waveform from an exciter during the tactical mode and the calibration mode. A circulator system has an input port connected to an...
- 6675715 Electronic projectile fuse**
A device supplies electric energy for projectile detonators without a battery or additional energy generation during flight of the projectile. For operating the projectile detonator in the flight phase, a supply capacitor charged during an inductive programming phase is disposed. The capacitor...
- 6647886 Vehicle system**
A safety system for a motor vehicle includes a plurality of safety devices each adapted to be activated in the event that an accident should occur. Each safety device includes at least one element selected from the group comprising an electric activator for activating the safety device and a...
- 6634298 Fireset for a low energy exploding foil initiator: SCR driven MOSFET switch**
A fireset for a low energy exploding foil initiator (LEEFI) comprises a first capacitor for storing a level of electrical energy sufficient to fire the LEEFI, the first capacitor being in electrical communication with the LEEFI, second and third capacitors in electrical communication with the...
- 6629498 Proximity submunition fuze safety logic**
The Fuze Safety Logic is disclosed that guards against erroneous responses created by accidents or by accidental releases of submunitions of payloads being carried by explosive ordnances. The fuze safety logic provides provisions for conservation of battery internal power, while at the same time...

- 6622628 Method of controlling the initiation of a smart igniter**
A smart igniter bus system has a repeater connected by a bus to a controller, and one or more smart igniters connected by the bus to the repeater so that the repeater is between the smart igniters and the controller. The repeater receives data transmitted on the bus by the controller and...
- 6609463 Firing device for a pyrotechnic vehicle-occupant protection device**
A firing device is described and has an electronic unit which is connected upstream of a firing cap and generates a constant firing voltage. A bypass line is provided for bypassing the electronic unit. A test switching device can be actuated by a test signal and, when a test signal is present,...
- 6598533 Electronic time-fuse for a projectile**
The invention aims to increase the overflight safety of a projectile, comprising a time-fuse which has an acceleration-activated battery. To this end, the safety device actuates a switch, whose position is interrogated during the flight phase and the fuse function is deactivated, if the switch is...
- 6595137 Arrangement for charging energy in an energy-storing arrangement such as an...**
The present invention provides an arrangement for charging energy in an energy-storing arrangement such as an ignition capacitor in electronic ignition systems. To reduce the risk of malfunction, direct-current-controlled breakers controlled by environmental conditions, normally occurring on the...
- 6591754 Pyrotechnical ignition system with integrated ignition circuit**
A pyrotechnical ignition system with integrated ignition circuit for an occupant restraint system for motor vehicles includes electrical components for triggering or communication functions integrated therein, a capacitor arrangement, having a flat non-conductive external surface is used as a...
- 6588342 Frequency addressable ignitor control device**
A frequency addressable ignitor control device utilizes electronic bandpass filters tuned to a unique center frequency and bandwidth for each ignitor. Energy generated by the system's controller comprises one or more narrow pulses whose center frequency corresponds to one or more bandpass...
- 6584907 Ordnance firing system**
An ordnance system of the present invention may include or feature any one or more of: a control unit, one or more effectors (detonators, initiators, shaped charges and the like), and a two-, three- or four-wire communication bus between the control unit and the effectors; an addressable system...
- 6578486 Igniter**
The firing apparatus for a gas generator of a restraint device in a vehicle has a firing chamber filled with a pyrotechnic material. A semiconductor chip, in which in addition to a firing resistor at least one circuit activating the latter is integrated, is arranged outside the firing chamber in...
- 6571712 Electropyrotechnic igniter with two ignition heads and use in motor vehicle...**
There is disclosed an electropyrotechnic igniter which contains two ignition heads each having a body containing a resistive heating element and a pyrotechnic ignition composition. The two ignition heads also include a means of dialogue and of triggering coded information and a means of storing...
- 6564715 Frequency addressable ignitor control device**
A frequency addressable ignitor control device utilizes electronic bandpass filters tuned to a unique center frequency and bandwidth for each ignitor. Energy generated by the system's controller comprises one or more narrow pulses whose center

frequency corresponds to one or more bandpass...

- 6564717 Circuit arrangement for driving an occupant protection system gas generator...**
The disclosure describes a circuit arrangement for driving an occupant protection system gas generator whose ignition process can be influenced by a magnetic field; this is based on a switching control principle, with the load coil generating the magnetic field being itself used as a component...
- 6526890 Pyrotechnic igniter and assembly process for such an igniter**
A pyrotechnic igniter for adaptation to a specific gas generator or pyromechanism, the igniter including at least one pyrotechnic composition located inside a cartridge composed of a case extended by at least two pins. The cartridge is located in a casing including at least an upper shell joined...
- 6490976 Smart igniter communications repeater**
A smart igniter bus system has a repeater connected by a bus to a controller, and one or more smart igniters connected by the bus to the repeater so that the repeater is between the smart igniters and the controller. The repeater receives data transmitted on the bus by the controller and...
- 6490977 Precision pyrotechnic display system and method having increased safety and...**
A system and method are disclosed for controlling the launch and burst of pyrotechnic projectiles in a pyrotechnic, or "fireworks", display.
- 6480140 Apparatus and method for providing a deception response system**
The present invention is to a method and system for providing protection from an EMS-targeted weapon by providing an appropriate spoofed EMS signal to cause an EMS-targeted weapon to determine an apparent object distance sufficiently close to the EMS-based targeting threat to nullify the weapon....
- 6470803 Blasting machine and detonator apparatus**
Detonator apparatus, such as a blasting machine detonator, is provided with a miniature transformer having multi-turn primary and secondary coils. The transformer feeds a bridge wire detonator element, and has sufficient impedance to permit impedance matching with a carrier that may be as long as...
- 6418853 Electropyrotechnic igniter with integrated electronics**
The electropyrotechnic igniter (1) comprises a body divided into a downstream chamber and an upstream chamber by a discoid metal piece (8), the downstream chamber containing a resistive heating element (11), a pyrotechnic initiating composition (12) and a pyrotechnic ignition composition (7), and...
- 6389975 Transistorized high-voltage circuit suitable for initiating a detonator**
Disclosed, in a preferred embodiment, is a switching circuit incorporating a Field Effect Transistor (FET), two series dual-tap gas tube surge arrestors, and high-voltage resistors as part of a high voltage switch of a fireset for initiating an exploding foil initiator (EFI). Until energizing the...
- 6378435 Variable target transition detection capability and method therefor**
A projectile fuze detects transitions between target layers by an electronic antenna radiating laterally into the target material and coupled to a pullable oscillator whose frequency shifts as the target material changes while the projectile penetrates. A frequency shift threshold detector...
- 6332399 Igniting element**
An igniting element, such as is used in a vehicle air bag igniter reduces the power dissipated by the air bag ignition circuit, as well as its space requirement and its costs, by using the ignition switch/switches as the ignition element (7) itself of the

ignition circuit. The ignition circuit is...

- 6279479 **Method and firing circuit for triggering a vehicle occupant protection system**
To fire a firing cap of a vehicle occupant protection system of a motor vehicle, at least two firing capacitors are provided which initially remain connected in parallel at the start of a firing process and are connected in series after expiry of a time interval from the start of the firing...
- 6253679 **Magneto-inductive on-command fuze and firing device**
A fuze is enabled, armed, and fired while indicating its status to remote command/receiver stations so that interconnected line charges and other ordnance items can be detonated with increased safety and reliability from a safe man-weapon separation distance. The fuze is responsive to remotely...
- 6230625 **Disarmable firing module**
A disarmable firing module with a firing module housing having an opening therein; a detonator holder received in the firing module housing via the opening in the firing module housing, the detonator holder including a cavity therein; a detonator disposed in the cavity of the detonator holder;...
- 6220165 **Pyrotechnic bridgewire circuit**
A circuit for controlling an electro-explosive device. The circuit includes a heating element, an input circuit and a load control circuit. The load control circuit is responsive to an electrical input provided by the input circuit for energizing the heating element. The heating element...
- 6196130 **Electrostatic arming apparatus for an explosive projectile**
The inventive environment sensor apparatus includes an electrostatic sensor carried by the projectile. The electrostatic sensor has first and second electrical conducting areas separated by a dielectric material to form two plates of a capacitor. The first electrical conducting area is...
- 6173651 **Method of detonator control with electronic ignition module, coded blast...**
A control method for detonators (1) fitted with an electronic ignition module (15). Each module (15) is associated with specific parameters including at least one identification parameter and one explosion delay time, and includes a firing capacitor and a rudimentary internal clock. The modules...
- 6145439 **RC time delay self-destruct fuze**
Apparatus mountable in a projectile for utilization with a rotor-type safing and arming mechanism for post-launch self-neutralization of a projectile having a fused warhead and a stab detonator, including a launch-activated battery, an electric detonator positioned sufficiently close to the stab...
- 6142080 **Spin-decay self-destruct fuze**
Apparatus mountable in a projectile for utilization with a rotor-type safing and arming mechanism for post-launch self-neutralization of a spinning projectile having a fused warhead and a stab detonator, including a launch-activated battery, an electric detonator positioned sufficiently close to...
- 6138571 **Fireset for a low energy exploding foil initiator: MOSFET driven MOSFET switch**
A fireset for a low energy exploding foil initiator (LEEFI) comprises a first capacitor for storing a level of electrical energy sufficient to fire the LEEFI, the first capacitor being in electrical communication with the LEEFI, second, third, and fourth capacitors in electrical communication with...
- 6095258 **Pressure actuated safety switch for oil well perforating**
A perforating gun assembly for perforating wellbores, comprising a shaped charge carrier assembly, a detonating cord for initiation of shaped charges in the carrier

assembly, an initiator attached to the detonating cord for initiating the cord on application of an electrical control signal to the...

- 6085659 **Electronic explosives initiating device**
An electronic explosives initiating device which includes a firing element which has a designed no-fire voltage and an operating circuit which operates at any voltage in a range of voltages which straddles the designed no-fire voltage.
- 6082265 **Electronic delay detonator**
An electronic delay detonator comprises an electronic timer (100) and an electric detonator (200) fired by ignition of an ignition element. The timer includes an energy charging circuit (120) for storing electrical energy supplied from a power supply, a delay circuit (30) for counting a time...
- 6000338 **Electrical distribution system**
The invention relates to an electrical distribution system for energizing a plurality of electric circuits in accordance with a predetermined delay pattern. The system as described comprises a control unit, a plurality of circuit delay arrangements each associated with an electrical circuit...
- 5942718 **Electronic delay detonator**
Patent of invention of an electronic delay detonator refers to a detonator meant to initiate explosive charges after an electronically predetermined delay time, transforming thermal energy generated by a heat source (2) into electrical energy through a miniaturized thermoelectrical battery (3),...
- 5908365 **Downhole triggering device**
A self-contained tool incorporates an electronic system for significantly reducing the number of batteries required to detonate an explosive downhole, making the tool short enough for transport by helicopter, rather than by boat, to an offshore well. This shortness is further beneficial for...
- 5898122 **Squib ignitor circuit and method thereof**
A squib ignitor circuit (20,40) reduces the probability of an accidental airbag deployment to greatly increase the safety of an automobile. A squib (24,28,44) operates at a voltage significantly higher than the squib ignitor circuit (20,40) to produce heat sufficient to ignite pyrotechnic...
- 5894102 **Self-correcting inductive fuze setter**
A self-correcting inductive fuze setter is used to detect and correct any errors that might occur during transmission and reception of a velocity corrected time data word so that a projectile will be detonated at the proper time. The self-correcting inductive fuze setter uses an error...
- 5886339 **Missile attitude safing system**
An attitude sensing safing system for a missile, which senses an attitude error of the missile, and activates a dudding signal when the error exceeds a certain value for a predetermined time. The missile includes a delay arming timer, which is deactivated when by the dudding signal. The system...
- 5886283 **Desensitized firing circuit**
A desensitized firing circuit has a pair of diodes, a resistor, and a severable wire loop used in combination with an existing firing circuit. With the severable wire loop intact, current flow through the resistor is shunted to ground, and the circuit operates in a sensitive mode. With the loop...
- 5886284 **Missile safety system for assuring minimum safe distance**
An arming and safing system for a missile having an acceleration responsive mechanism for actuating a timing device upon launching to insure arming only after

the passage of a predetermined period of time, and an omnidirectional impact switch for activating a dudding switch in case of missile...

5886285 Variable range timer impact safety system

An arming system for a missile which prevents destruction of the missile side of a specified area. The missile may be launched from a submarine, and follow a water-air-trajectory, and includes a variable-range timer acting in conjunction with an impact detection system. The timer drives arming...

5773749 Frequency and voltage dependent multiple payload dispenser

As voltage and frequency dependent multiple payload dispenser system in which a variable voltage or frequency signal source is used to selectively fire squibs based on the pass voltages and pass frequencies of a filter network. The filter network is placed near, or incorporated into, the payload...

5756926 EFI detonator initiation system and method

In one aspect of the invention, an environmentally insensitive initiator, including: an electro-explosive device responsive to an electrical signal of unique voltage and frequency applied to the electro-explosive device, the unique voltage and frequency being such that are not otherwise present...

5731538 Method and system for making integrated solid-state fire-sets and detonators

A slapper detonator comprises a solid-state high-voltage capacitor, a low-jitter dielectric breakdown switch and trigger circuitry, a detonator transmission line, an exploding foil bridge, and a flier material. All these components are fabricated in a single solid-state device using thin film...

5641935 Electronic switch for triggering firing of munitions

An electronic switch for triggering firing of munitions, the switch includ an electrical circuit having a high voltage source, a sealed two electrode gap in communication with the high voltage source, a microgap in series with the sealed gap, an exploding foil initiator in communication with the...

5621184 Programmable electronic timer circuit

A programmable timer circuit (18) includes a counter (22) that contains a plurality of sequentially arranged counter stages (22a, 22b). A toggle logic gate (25) is disposed between each sequential pair of counter stages to accept the output signal from the preceding stage and to issue an input...

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